



SANT NANDLAL SMRITI VIDYA MANDIR, GHATSILA

SYLLABUS –STD.VII

SESSION- 2025 – 26

SUBJECT - SCIENCE



MONTH	WD	No of classes	TOPICS TO BE TAUGHT	ACTIVITIES	LEARNING OUTCOMES	VALUES
APRIL	21	24	Ch -1 Nutrition in plants <ul style="list-style-type: none">• Nutrition and modes of nutrition• Photosynthesis (condition necessary for photosynthesis)• Heterotrophic modes of nutrition• Exercise Ch-3 Clothes materials – fibre to fabric <ul style="list-style-type: none">• Fibres and fabrics• Natural and manmade fibres• Wool and silk• Exercise Ch -4 Heat and temperature <ul style="list-style-type: none">• What is heat• How to determine hotness – temperature• Clinical and laboratory thermometer• Exercise Revision + periodic test 1	To study growth of mould on bread To study the different level of life cycle of silk moth To study the temperature of hot water and cold water using laboratory thermometer	Learn different modes of nutrition Understand photosynthesis and factors affecting photosynthesis Learn the concept of fibres and fabrics Learn about rearing and breeding of sheep Know the difference between natural and manmade fibres Understand the term heat and different effects of heat	Mutual help, resource management. Strength of unity Patience Struggle for survival Consciousness Curiosity
MAY	9	11	Ch -2 Nutrition in animals <ul style="list-style-type: none">• Modes of nutrition in animals• Nutrition in amoeba• Human digestive system• Digestion of food in ruminants• Exercise	To study the different regions of the tongue for tastes	Know types and modes of nutrition in amoeba and human beings Learn about teeth, their structure and care Study digestion of food in human	Team work Unity



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JUNE	11	13	Ch-5 Transfer of heat <ul style="list-style-type: none">• The flow of heat• Conduction• Convection• Radiation Ch-6 Acids , Bases and Salts <ul style="list-style-type: none">• Acids (properties & uses)• Bases (properties & uses)• Indicators• Neutralization	To study the transfer of heat through conduction To study the litmus test with acid and basic solution To demonstrate the process of neutralization reaction	Learn the different modes of transfer of heat Understand radiation and effect of radiation. Know what are acids, bases and salts Understand what is neutralization and what is its importance	Awareness Responsibility Cooperation Consciousness Responsibility
JULY	26	30	Ch- 18 Water – A natural resources <ul style="list-style-type: none">• Forms of water• Water cycle• Ground water (importance and depletion)• Water management periodic test 2 Ch-8 Weather and Climate <ul style="list-style-type: none">• What is weather• Elements of weather• Climate• Geographical factors affecting the climate	Poster making and slogan writing on the theme water is precious: save it To note down the weather report of 15 days and prepare the graph for the temperature these days	Understand water on the earth is present in all the three forms – solid , liquid and gas Understand the problems caused due to water shortage Know the cause of ground water depletion Understand weather and how weather affects ours lives Understand climate	Water conservation Cleanliness Awareness Consciousness
AUGUST	24	28	Ch-10 Wind , Strom and Cyclones <ul style="list-style-type: none">• Air and wind• Thunderstorm• Cyclones• Tornadoes Ch-9 Adaptation of animal to climate <ul style="list-style-type: none">• Adaptation• Adaptation for desert life• Adaptation in animals living in polar regions	Collect information on 5 devastating cyclones in India	Understand how winds are caused , thunderstorm and cyclones Know the precautions that can be taken during a thunderstorm , cyclones And tornado Understand adaptation	Team work Cooperation Management equality Adaptability Adjusting to situations



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			<ul style="list-style-type: none">• Adaptation in animals living in tropical rainforest		Know adaptation of animals in different regions	
SEPT	21	15	<p>Revision + Half yearly examination</p> <p>Ch – 12 Respiration in animals and plants</p> <ul style="list-style-type: none">• Aerobic and anaerobic respiration• Breathing in human beings• Respiration in other animals• Respiration in plants	<p>To find out breathing rate under different conditions</p>	<p>Learn the necessity of respiration</p> <p>Understand aerobic and anaerobic respiration</p> <p>Distinguish between breathing and respiration</p>	<p>Team work</p> <p>Cleanliness</p>
OCT	18	19	<p>Ch -7 Physical and Chemical change</p> <ul style="list-style-type: none">• physical change• chemical change• rusting of iron• Crystallisation <p>Ch- 15 Motion and Time</p> <ul style="list-style-type: none">• Motion• Measurements of time• Speed• Simple pendulum• Distance time graph	<p>To show chemical change is an irreversible change</p> <p>To study the time period of simple pendulum</p>	<p>Understand physical change and chemical change</p> <p>Study bursting and how it can be prevented</p> <p>Learn the importance of measurement of time</p> <p>Define uniform and non uniform motion</p>	<p>Adaptability</p> <p>Cooperation</p> <p>Time management</p> <p>Patience</p>
NOV	23	20	<p>Ch – 13 Transportation in animals and plants</p> <ul style="list-style-type: none">• Transportation of materials• Circulatory system• Excretion in animals• Transport of substance in plants <p>Ch-11 soil</p> <ul style="list-style-type: none">• Layers of soil• Soil profile• Components of soil• Types of soil• Soil erosion	<p>To feel own pulse and count the pulse rate</p> <p>To count the pulse rate of a friend</p> <p>To study the different layer of soil</p>	<p>Know parts of circulatory system, blood, blood vessels and capillaries</p> <p>Understand soil and it's importance</p> <p>Different layer of soil</p> <p>Components and different types of soil</p>	<p>Health management</p> <p>Consciousness</p> <p>Resources management</p> <p>Curiosity</p> <p>Responsibility</p> <p>Awareness</p>



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Revision + periodic test 3						
DEC	19	21	Ch – 14 Multiplication in plants <ul style="list-style-type: none">• Reproduction• Asexual reproduction• Vegetative reproduction• Sexual reproduction• Pollination and seed dispersal Ch- 16 Electric current and it's effects <ul style="list-style-type: none">• Electric current• The heating effect of current• Magnetic effect of current	To study the parts of flowers To make a circuit on combination of cells	Learn different modes of reproduction in plants Study various means of vegetative reproduction Learn symbols to represent electric components Learn the application of heating and magnetic effect of current	Value life struggle for survival Awareness Cooperation Team work Awareness Consciousness
JAN	22	24	Ch- 19 Forest – the green Life line <ul style="list-style-type: none">• What is a forest• Regions of forest• Interdependence of plants and animals in forest• Threats to forest• Forest conservation and management Ch – 17 light <ul style="list-style-type: none">• Light & properties of light• Mirrors and images• Lenses (convex and concave)• Light and colours Ch – 20 Dealing with waste water <ul style="list-style-type: none">• Waste water treatment• Water pollution	Collect information about Chipko Andolan To show that white light consists of seven different colours (newton disc) Think of some ways by which you can conserve water . Discuss them in the class and write them	To understand forest , it's importance and it's types Know interdependence of plants and animals Forest conservation and forest management Characteristics of light Learn about spherical mirrors and their types and image formed Understand the various uses of water Sewage and treatment of sewage	Conservation Interdependence Curiosity Consciousness Hygiene Awareness Responsibility
FEB	22	25	Revision + annual examination			

Subject Teacher: Gurdeep Kaur/ Sushma Bishayee

Principal